

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number
WO 2004/019884 A2

(51) International Patent Classification⁷:

A61K

(74) Agents: BROWN, Marc, E. et al.; McDermott, Will & Emery, 2049 Century Park East, Suite 3400, Los Angeles, CA 90067 (US).

(21) International Application Number:

PCT/US2003/027105

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/406,715 29 August 2002 (29.08.2002) US

(71) Applicant (for all designated States except US): REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE [US/US]; 1111 Franklin Street, 5th Floor, Oakland, CA 94607 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PARHAMI, Farhad [US/US]; 612 South Barrington Avenue, #212, Los Angeles, CA 90049 (US).

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

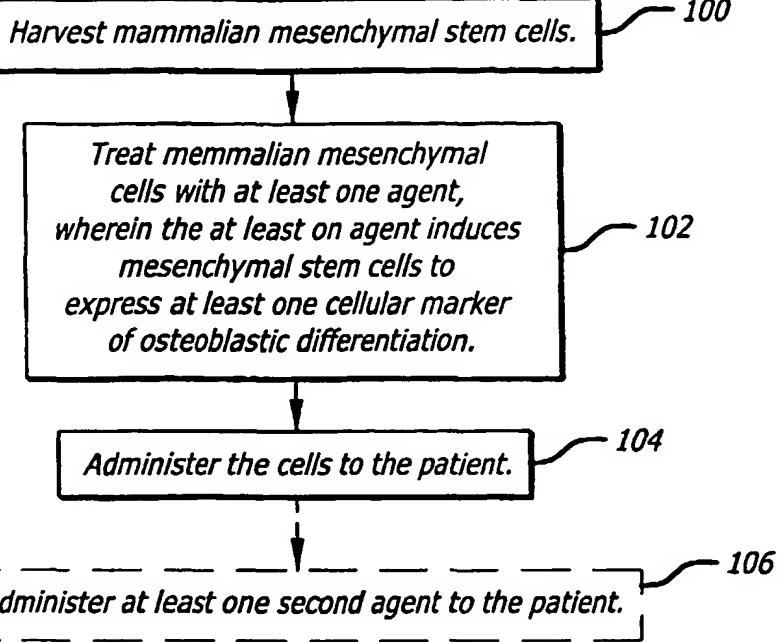
Published:

— without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: AGENTS AND METHODS FOR ENHANCING BONE FORMATION

1/12



(57) Abstract: The present invention discloses agents and methods for inducing osteoblastic cellular differentiation, as well as the use of such agents and methods to treat patients to maintain bone mass, enhance bone formation and/or bone repair. Exemplary agents include oxysterols, alone or in combination with particular oxysterols, or other agents known to assist in bone formation. The invention further includes medicaments including oxysterols for the treatment of bone disorders, local injections of oxysterols or cells (206) and implants (202) having agents or cells (203) to facilitate bone repair.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.